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SERIAL NUMBER	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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08/253,855 06/03/94 SCHULZ-HARDER

J A4908

EXAMINER  
LEE, K

15M1/0607

ART UNIT PAPER NUMBER

HOFFMAN, WASSON & GITLER  
SUITE 522  
2361 JEFFERSON DAVIS HIGHWAY  
ARLINGTON, VA 22202

1513

DATE MAILED:

06/07/95

This is a communication from the examiner in charge of your application.  
COMMISSIONER OF PATENTS AND TRADEMARKS

☒ This application has been examined ☒ Responsive to communication filed on 5-5-95 ☒ This action is made final.

A shortened statutory period for response to this action is set to expire 3 month(s), 0 days from the date of this letter.  
Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133

Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

- |   |   |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited by Examiner, PTO-892.        | 2. <input type="checkbox"/> Notice of Draftsman's Patent Drawing Review, PTO-948. |
| 3. <input type="checkbox"/> Notice of Art Cited by Applicant, PTO-1449.             | 4. <input type="checkbox"/> Notice of Informal Patent Application, PTO-152.       |
| 5. <input type="checkbox"/> Information on How to Effect Drawing Changes, PTO-1474. | 6. <input type="checkbox"/>   |

Part II SUMMARY OF ACTION

1. ☒ Claims 1-42 are pending in the application.  
Of the above, claims 18-23, 37-42 are withdrawn from consideration.
2. ☒ Claims 24 have been cancelled.
3. ☐ Claims are allowed.
4. ☒ Claims 1-17, 25-36, 42 are rejected.
5. ☐ Claims are objected to.
6. ☐ Claims are subject to restriction or election requirement.
7. ☐ This application has been filed with informal drawings under 37 C.F.R. 1.85 which are acceptable for examination purposes.
8. ☐ Formal drawings are required in response to this Office action.
9. ☐ The corrected or substitute drawings have been received on \_\_\_\_\_. Under 37 C.F.R. 1.84 these drawings are ☐ acceptable; ☐ not acceptable (see explanation or Notice of Draftsman's Patent Drawing Review, PTO-948).
10. ☐ The proposed additional or substitute sheet(s) of drawings, filed on \_\_\_\_\_, has (have) been ☐ approved by the examiner; ☐ disapproved by the examiner (see explanation).
11. ☐ The proposed drawing correction, filed \_\_\_\_\_, has been ☐ approved; ☐ disapproved (see explanation).
12. ☐ Acknowledgement is made of the claim for priority under 35 U.S.C. 119. The certified copy has ☐ been received ☐ not been received ☐ been filed in parent application, serial no. \_\_\_\_\_; filed on \_\_\_\_\_.
13. ☐ Since this application appears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.
14. ☐ Other

EXAMINER'S ACTION

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In view of the amendment filed on May 5th 1995, the applicant has amended the claims and argues that the prior arts do not teach what is claimed in the present invention. The applicant traverses the art rejection as follows:

- A. The present invention is to prevent an unwanted breaking by providing margin areas at the periphery of the ceramic layer.
- B. The breaking of the multiple substrate along the predetermined breaking lines in between the adjoining panels will only be possible after the margin area has been broken away.

In respond to the above arguments:

- A. Spadafora (EU 0149923 A2) teaches an electronic microcircuits that are formed in an array having perforations which defines score lines (12).

The score lines will be broken in order to yield the individual substrates. From Fig. 2 (and Fig. 1) the score line (or the rectangular perforations (118)) are between each individual circuit and by the edge of the substrate. In other words, a small width at the margin of the substrate is design for handling and an unwanted damage to the individual substrate.

- B. The applicant is required to show support for this feature in the specification and in the claims to distinguish that the breaking lines at the margin is different from the breaking lines between the adjoining panels (e.g. the depth of the breaking lines are different, or any special mechanism, etc.). Since

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applicant has not shown or explained this particular feature but to bring this out for an argument. This does not put the case in better position for allowance, unless a support or evident is provided in the specification and in the claims.

1. Applicant's arguments filed May 19th 1995 have been fully considered but they are not deemed to be persuasive. The art rejection is maintained (ie. 1-17 ,24-36 and 42 are rejected under 35 USC 102(b) and in the alternative rejected under 35 USC 103 as obvious over Gyurk or Nasu et al or Spadafora et al).
2. Applicant's amendment necessitated the new grounds of rejection. Accordingly, **THIS ACTION IS MADE FINAL.** See M.P.E.P. § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

3. Group 1500 of the Patent and Trademark Office has established an in group Fax Center. Communication may now be sent and received from this facility for conducting official business with the Patent and Trademark Office. The location of


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the Fax Center is Crystal Mall 1 7-C03. Two numbers are provided: (703) 305-3596 and (703) 305-3612.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cathy Lee whose telephone number is (703) 308-2418.

  
PATRICK J. RYAN  
SUPERVISORY PATENT EXAMINER  
GROUP 150

cc: kfl;  
May 27, 1995